

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A power supply apparatus comprising:

first and second parallel resonance circuits;

a first switching element that is connected to the first parallel resonance circuit

and forms a first parallel resonance circuit part together with the first parallel resonance circuit;

a second switch element that is connected to the second parallel resonance circuit and forms a second parallel resonance circuit part together with the second parallel resonance circuit; and

a series resonance circuit having a first end connected to an end of the first parallel resonance circuit part and a second end connected to an end of the second parallel resonance circuit part,

the first and second parallel resonance circuits being coupled to a DC power supply provided in common thereto,

the first and second switching elements being alternately turned on and off in accordance with control signals externally supplied.

2. (Original) The power supply apparatus as claimed in claim 1, wherein one of the first and second parallel resonance circuit parts comprises a composite capacitance formed by a first capacitive element and an output capacitance of one of the first and second switching elements.

3. (Original) The power supply apparatus as claimed in claim 1, wherein the series resonance circuit comprises a composite capacitance formed by a second capacitive

element and a capacitance of a load supplied with power supplied by the power supply apparatus.

4. (Original) The power supply apparatus as claimed in claim 2, wherein the series resonance circuit comprises a composite capacitance formed by a second capacitive element and a capacitance of a load supplied with power supplied by the power supply apparatus.

5. (Original) The power supply apparatus as claimed in claim 1, wherein the control signal applied to the second switching element has a phase opposite to that of the control signal applied to the first switching element.

6. (Original) The power supply apparatus as claimed in claim 1, wherein the first and second switching elements are transistors, and resistors are provided between the transistors and a dc power supply.

7. (Original) The power supply apparatus as claimed in claim 1, wherein:
the first and second switching elements are transistors, and resistors for use in current limiting are provided between the transistors and a dc power supply; and
connection nodes between the transistors and the resistors are grounded via capacitors.

8. (Original) The power supply apparatus as claimed in claim 1, wherein the series resonance circuit comprises an inductance element and a capacitance element connected in series, and a connection node therebetween is an output terminal of the power supply apparatus.

9. (Original) The power supply apparatus as claimed in claim 1, further comprising a voltage doubler rectifier circuit connected to a node in the series resonance circuit.

10. (Currently Amended) A power supply circuit comprising:
first and second switching elements respectively controlled by first and second
clock signals;
a first parallel resonance circuit connected between the first switching element
and a dc power supply;
a second parallel resonance circuit connected between the second switching
element and the dc power supply provided in common to the first parallel resonance circuit;
and
a series resonance circuit connected between the first and second parallel
resonance circuits,
an output voltage of the power supply circuit being obtained from a node in
the series resonance circuit.

11. (Original) The power supply circuit as claimed in claim 10, further
comprising a first resistor interposed between the dc power supply and the first parallel
resonance circuit, and a second resistor interposed between the dc power supply and the
second parallel resonance circuit.

12. (Original) The power supply circuit as claimed in claim 11, further
comprising a first capacitor via which a first node at which the first resistor and the first
parallel resonance circuit are connected in series is grounded, and a second capacitor via
which a second node at which the second resistor and the second parallel resonance circuit are
connected in series is grounded.

13. (Original) The power supply circuit as claimed in claim 10, further
comprising a voltage doubler rectifier circuit that produces, from the output voltage, a dc
voltage that has an amplitude multiple times as large as an amplitude of the dc power supply.

14. (Currently Amended) An image forming apparatus comprising:

an image forming part; and

a power supply apparatus that supplies power to the image forming part,

the power supply apparatus comprising:

first and second parallel resonance circuits;

a first switching element that is connected to the first parallel resonance circuit

and forms a first parallel resonance circuit part together with the first parallel resonance circuit;

a second switch element that is connected to the second parallel resonance circuit and forms a second parallel resonance circuit part together with the second parallel resonance circuit; and

a series resonance circuit having a first end connected to an end of the first parallel resonance circuit part and a second end connected to an end of the second parallel resonance circuit part,

the first and second parallel resonance circuits being coupled to a DC power supply provided in common thereto,

the first and second switching elements being alternately turned on and off in accordance with control signals externally supplied.

15. (New) A power supply apparatus comprising:

first and second parallel resonance circuits;

a first switching element that is connected to the first parallel resonance circuit

and forms a first parallel resonance circuit part together with the first parallel resonance circuit;

a second switch element that is connected to the second parallel resonance circuit and forms a second parallel resonance circuit part together with the second parallel resonance circuit; and

a series resonance circuit having a first end connected to an end of the first parallel resonance circuit part and a second end connected to an end of the second parallel resonance circuit part,

the first and second switching elements being alternatively turned on and off in accordance with control signals externally supplied in order to alternately connect the first and second ends to a reference potential defined in common to the first and second parallel resonance circuits.